

Resource Conservation and resource productivity

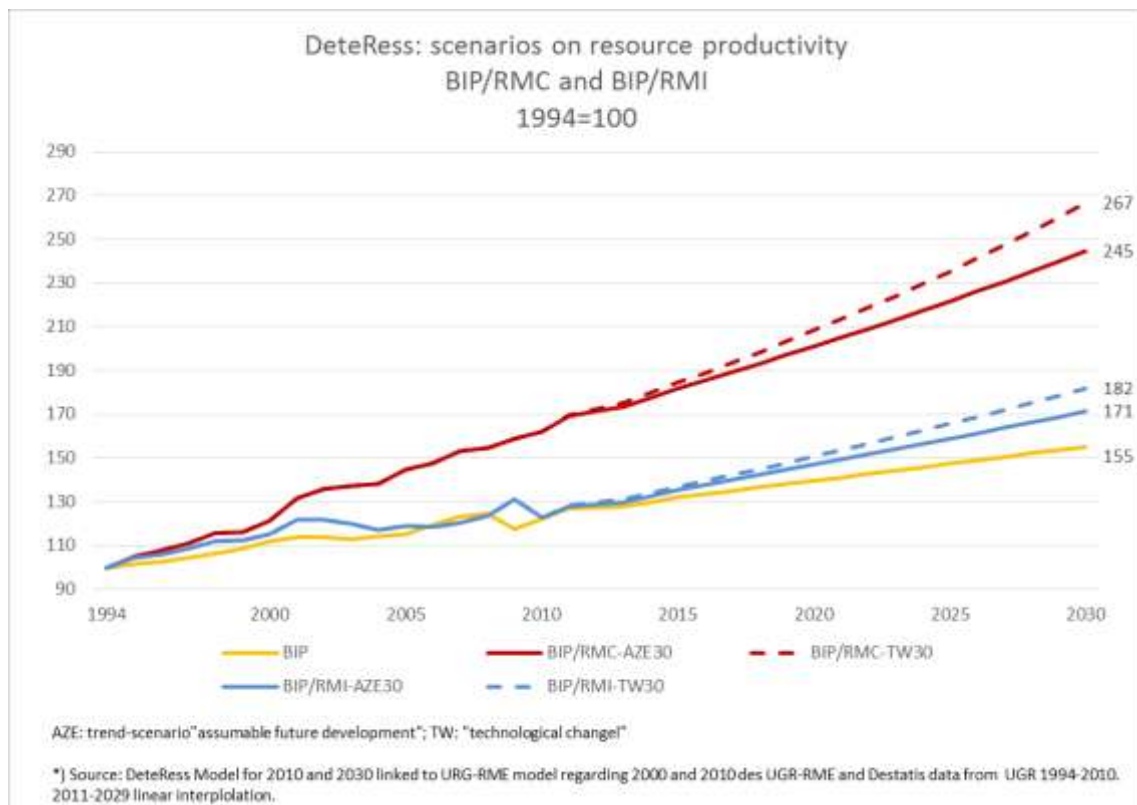
Modelling approaches and policy options

The German government aims at fostering resource conservation and resource productivity. A key question in this context is: How do trends and critical indicators of resource consumption develop and how could policy intervene?

The two German UFOPLAN projects DeteRes¹ and SimRes² assessed the mid- to long-term resource consumption as well as potential impacts of resource policy approaches in Germany for 2030 and 2050. Analyses focused on systemic causalities, path dependencies and drivers, but also on opportunities of different policy approaches from technology oriented raw material policy to current resource efficiency policy.

Despite the use of different methods and simulation models, both projects arrived at very similar results: great influence of variables, which have long-term effects, but can hardly be influenced by policy; great potential of the energy transition to reduce raw material consumption; existing, but limited impacts of technology and efficiency-oriented approaches to dematerialisation.

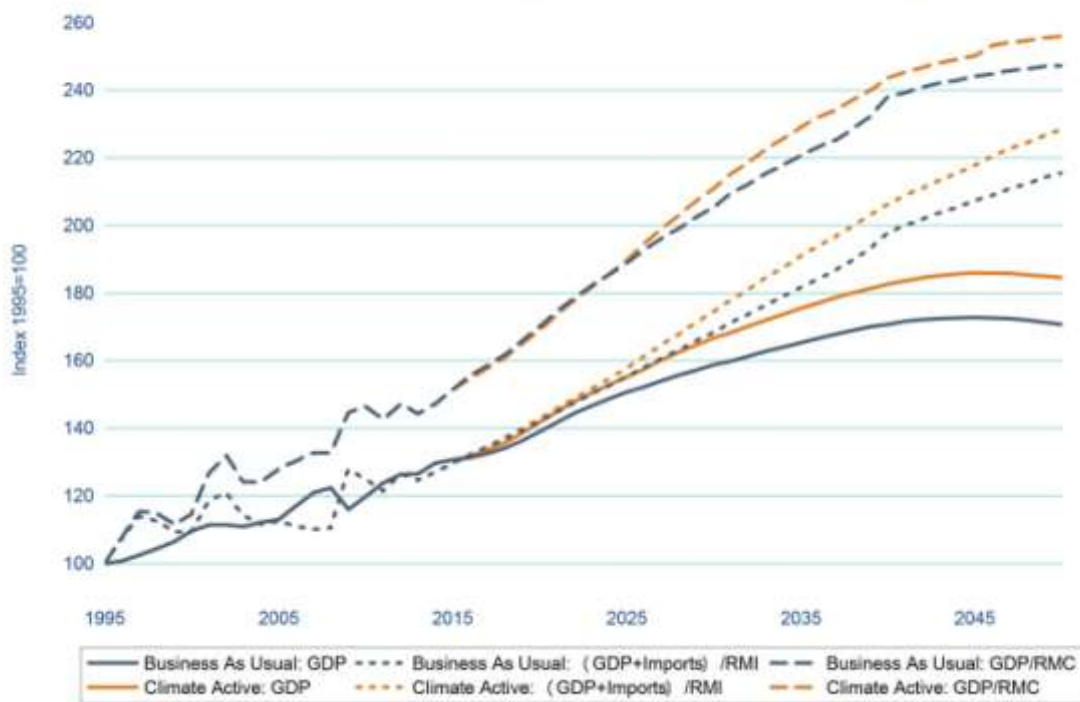
The project results highlight that structural changes and changes in consumer behaviour are needed in addition to efficiency policy in order to achieve ambitious targets to increase resource productivity and reduce resource consumption.



¹ Structural and Technical Determinants of Resource Efficiency (DeteRes); FKZ 3712 93 321. DeteRes investigated selected resource efficiency technologies to identify options to act for German resource policy until 2030.

² Models, potential and long-term scenarios for resource efficiency – SimRes; FKZ 3712 93 102. SimRes analysed the potential global and national impacts of German resource policy approaches.

Germany: GDP and Resource Productivity
 Source: GINFORS-Projections for the SimRes-Project



We kindly invite you to discuss the project results with us in two consecutive workshops:

On 7 December, we will discuss methodological and modelling approaches. This workshop targets experts in the area of raw material and environmental modeling as well as from statistical offices. Workshop language will be English.

On 8 December we will discuss potential implications of the project results for further development of national resource policy in Germany. This workshop targets ProgRes stakeholder and experts from raw material and resource policy. Workshop language will be German (therefore, the program for this workshop below will not be translated to English in this document).

We will inform you about the venue for the two workshops in due course!

Resource conservation and resource productivity: modelling approaches for assessment of economy-wide material flows and potential policy impacts

Agenda for 7th December 2016 (Venue: Ecologic Institute, Pfalzburger Str. 43-44, 10717 Berlin)

- 11:00 Welcome and introduction by BMUB / UBA; brief retrospective on the policy workshop
- 11:15 Introducing the different modelling approaches used in DeteRess and SimRess
- 12:00 Elaborating on differences and similarities of methods and the results obtained
- 13:30 Lunch
- 14:15 Options for applying and further developing the models: need for harmonization of different perspectives
- 16:00 Conclusions and outlook
- 16:30 End

Ressourcenschonung und Rohstoffproduktivität: Triebkräfte, langfristige Entwicklungen und politischer Handlungsspielraum

Tagesordnung am 8.12.2016 (Ort: BMUB, Krausenstr. 17-18, 10117 Berlin)

- 10:00 Begrüßung BMUB / UBA
- 10:15 Einführung in die Projekte DeteRess und SimRess durch UBA
- 10:45 Wesentliche Ergebnisse beider Projekte
 - Triebkräfte, langfristige globale und nationale Entwicklungstrends, ausgewählte Auswertungen zu Sektoren, Technologie und Verwendungskategorien*
 - Dr. Martin Hirschnitz-Garbers, Ecologic Institut, für SimRess*
 - Dr. Monika Dittrich, IFEU, für DeteRess*
- 12:15 Mittag
- 13:00 Politischer Handlungsspielraum und möglicher Bedarf an Weiterentwicklung der Ressourcenpolitik
 - Diskussion der Ergebnisse und relevanter Ansatzpunkte im Weltcafé-Format zu den Feldern Bauen/Wohnen, Energie und Mobilität*
- 14:30 Kurzbericht zu wesentlichen Schlussfolgerungen aus den Arbeitsgruppen
- 15:00 Zusammenführung der wesentlichen Erkenntnisse und Ausblick auf den nächsten Tag
- 15:30 Verabschiedung und Ende der Veranstaltung

Structural and Technical Determinants of Resource Efficiency (DeteRes)

Supported under the German Environment Agency's UFOPLAN programme, FKZ: 3712 93 321

Federal Environment Agency, Section III. 2.2 Resource conservation, material cycles, minerals and metals industry

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Models, potential and long-term scenarios for resource efficiency (SimRes)

Supported under the German Environment Agency's UFOPLAN programme, FKZ: 3712 93 102

Section I 1.1 Fundamental Aspects, Sustainability Strategies and Scenarios, Sustainable Resource Use

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